

## Summary of EPA Inspections and Sampling done in the Central Sands Area

In June of 2017, EPA conducted a production area inspection and file review to determine if CSD was in compliance with its National Pollutant Discharge Elimination System permit and Nutrient Management Plan.

### Ex. 5 Deliberative Process (DP)

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In October of 2017, EPA sampled 13 private wells and four surface water locations in northeast Juneau County, Wisconsin (Table 1 and Table 2). The private well sampling had one site at 10.1 mg/L and five private wells had results >20 mg/L of nitrate-nitrite which is over the drinking water standard of 10 mg/L.

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EPA has contacted all 13 private well homeowners by phone, but is in the process of providing the laboratory data to the 10 people who have not received their laboratory results either through e-mail or by mailing them a hard copy.

From April 30- May 3, 2018 EPA sampled 5 private wells (three were repeated homes from the October 2017 sampling in Table 3). The five private wells samples had results between 21.9 – 40.4 mg/L of nitrate-nitrite which is over the drinking water standard of 10.0 mg/L. EPA has provided the five people with their laboratory results through e-mail or by mailing them a hard copy. EPA also conducted geo-probe sampling at 41 locations sampling along public road right-of-ways. At each location, EPA collected samples at two separate depths for a total of 82 samples taken along public road right-of-ways in northeast Juneau County. EPA is currently working on a website that will have links to all of the analyses performed at the 82 sampling sites along with maps that show the geo-probe locations and specific maps of the parameters analyzed. The website will be available to the public.

In total, EPA collected samples from 15 private wells if you combine the October 2017 and May 2018 sampling. EPA collected 4 samples from surface waters (Table 2) in October 2017. EPA collected 82 geo-probe samples along public road right-of-ways in northeast Juneau County, Wisconsin (to be made available on EPA's website) from April 30 through May 3, 2018.

### July 2- July 30, 2018 – Next Steps for EPA:

- EPA is working to put maps of the groundwater data (public road right-of-way data only) on to an EPA website accessible to the public.
- EPA is providing a link to WDNR to review the data prior to the data being made public.
- EPA plans to make the data public after WDNR's review.
- EPA after the completion of the groundwater sampling report will set-up a call with WDNR to discuss the results of the sampling investigation.

### **July 17, 2018 - Public Outreach:**

- Juneau County Health Department is putting together an educational session on July 17, 2018 at the Necedah Town Hall at 6:00 PM to discuss the 104 private wells tested in Juneau and Wood Counties. Juneau County Health Department is requesting that EPA participate by discussing the sampling that has taken place April 30 – May 3, 2018 in Juneau County. EPA is planning to attend to provide brief description on where they collected samples and what type of information was collected and general range of the results.
- EPA would like to have a conference call with Juneau County Health Departments, Wisconsin Department of Natural Resources, Wisconsin Department of Agriculture, Trade, and Consumer Protection, and other participating agencies prior to the July 17, 2018 educational session.

#### **Attachments:**

Table 1: Results of private well data collected on October 23-25, 2017

Table 2: Results of surface water data sampled October 25, 2017

Table 3: Results of private wells sampled on May 3, 2018

**Table 1: Results of private well data sampled on October 23-25, 2017:**

Facility ID	Date of Sampling	Well Depth	Sample Location	County	State	Total Phosphorus (mg/L)	Ammonia-Nitrogen (mg/L)	TKN (mg/L)	Nitrate-Nitrite (mg/L)	Total Coliform	<i>E.coli</i> (MPN/100mL)
S01	October 23, 2017	42 feet	Basement Bypass	Juneau	Wisconsin	0.04	ND*	0.23	37.8	NA	<1
S02	October 24, 2017	60 feet	Kitchen sink	Juneau	Wisconsin	ND*	ND*	0.38	35.2	<1	<1
S03	October 24, 2017	30-35 feet	Outside spigot	Juneau	Wisconsin	ND*	ND*	0.22	5.50	<1	<1
S04	October 24, 2017	30-35 feet	Outside spigot	Juneau	Wisconsin	ND*	ND*	0.2	0.41	<1	<1
S05	October 24, 2017	30 feet	Outside spigot	Juneau	Wisconsin	0.04	ND*	ND	0.10	<1	<1
S06	October 24, 2017	48 feet	Kitchen sink	Juneau	Wisconsin	ND*	ND*	0.25	10.1	<1	<1
S07	October 24, 2017	22 feet	Kitchen Sink	Juneau	Wisconsin	ND*	ND*	0.22	8.59	<1	<1
S08	October 24, 2017	42 feet	Outside spigot	Juneau	Wisconsin	0.05	ND*	ND	4.83	<1	<1
S12	October 24, 2017	80-90 feet	Outside spigot	Juneau	Wisconsin	ND*	ND*	ND	0.23	<1	<1
S14	October 24, 2017	50 feet	Outside spigot	Juneau	Wisconsin	ND*	ND*	0.26	28.2	<1	<1
S15	October 24, 2017	40 feet	Kitchen sink	Juneau	Wisconsin	ND*	ND*	0.20	5.44	<1	<1
S20	October 24, 2017	50 feet	Basement	Juneau	Wisconsin	0.04	ND*	0.25	23.9	1	1
S22	October 25, 2017	Not sure	Kitchen Sink	Juneau	Wisconsin	0.04	ND*	0.28	28.4	91	<1

\*ND = Non-detect

**Table 2: Results of surface water data sampled October 25, 2017:**

Facility ID	Location of surface water	Date of Surface water	County	State	Nitrate-Nitrite (mg/L)	Total Phosphorus (mg/L)	Ammonia-Nitrogen (mg/L)	TKN (mg/L)	<i>E.coli</i> (MPN/100mL)
S16	S. Petenwell Lake	10/25/2017	Juneau	Wisconsin	0.49	0.09	0.26	1.33	1
S17	N. Petenwell Lake	10/25/2017	Juneau	Wisconsin	0.66	0.11	ND*	1.01	15
S18	Spud Creek	10/25/2017	Juneau	Wisconsin	4.29	ND*	ND*	0.36	20
S19	Cranberry Creek	10/25/2017	Juneau	Wisconsin	0.34	0.45	ND*	0.67	74

\*ND = Non-detect

**Table 3: Results of private wells sampled on May 3, 2018:**

Sample ID	Date	Depth	Location	County	State	Ammonia-Nitrogen (mg/L)	Nitrate-Nitrite (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Chloride (mg/L)	<i>E. coli</i> (MPN/100mL)	UNL* Nitrate	N15*
S01	May 3, 2018	42 feet	Basement bypass	Juneau	Wisconsin	0.0150-0.0480	34.4	34.4	ND*	32.6	<1		
S02	May 3, 2018	60 feet	Kitchen sink	Juneau	Wisconsin	ND	34.3	34.3	ND*	49.6	<1		
S03	May 3, 2018	Need to contact	Kitchen sink	Juneau	Wisconsin	ND	21.9	21.9	ND*	24.7	<1		
S04	May 3, 2018	Need to contact	Basement bypass	Juneau	Wisconsin	ND	40.4	40.3	ND*	39.7	<1		
S05	May 3, 2018	50 feet	Outside spigot	Juneau	Wisconsin	ND	29.1	29.1	ND*	36.8	<1		

\*ND = Non-detect

\*UNL = University of Nebraska Laboratory – still evaluating data

\*N15= Isotope of Nitrate – still evaluating data

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